

SEQUENCE LISTING

<110> SUGA, Mikiko
ASAKURA, Yoko
MORI, Yukiko
ITO, Nisao
KURAHASHI, Osamu

<120> Arginine Repressor Deficient Strain of Coryneform Bacterium and
Method for Producing L-Arginine

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<150> JP2000-129167

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<170> PatentIn Ver. 2.0

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<210> 8

<211> 427

<212> PRT

<213> *Brevibacterium lactofermentum*

<400> 8

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Ser	Lys	Ala	Leu	Ala	Gly	Cys	His	Arg	Trp	Arg	Arg	Asp	Glu	Ala	Val
		35					40					45			
Ala	Val	Ser	Trp	Ser	Ser	Asn	Gly	Ala	Ser	Gln	Phe	Glu	Gly	Leu	Gln
	50					55				60					
Asn	Ser	His	Ser	Arg	Trp	Gly	Ser	Ser	Leu	Ala	Glu	Leu	Glu	Val	Met
65				70					75					80	
Gly	Glu	Arg	Arg	Ile	Glu	Leu	Ala	Ile	Ala	Thr	Lys	Asn	His	Leu	Ala
			85					90						95	
Ala	Gly	Gly	Ala	Leu	Met	Met	Phe	Val	Gly	Thr	Val	Arg	His	Asn	Arg
		100						105						110	
Ser	Gln	Ser	Phe	Ala	Gln	Val	Glu	Ala	Gly	Ile	Lys	Thr	Ala	Tyr	Ser
		115						120						125	

Ser Met Val Lys Thr Ser Gln Trp Lys Lys Glu Arg Ala Arg Tyr Gly
 130 135 140
 Val Glu His Thr Tyr Ser Asp Tyr Glu Val Thr Asp Ser Trp Ala Asn
 145 150 155 160
 Gly Trp His Leu His Arg Asn Met Leu Leu Phe Leu Asp Arg Pro Leu
 165 170 175
 Ser Asp Asp Glu Leu Lys Ala Phe Glu Asp Ser Met Phe Ser Arg Trp
 180 185 190
 Ser Ala Gly Val Val Lys Ala Gly Met Asp Ala Pro Leu Arg Glu His
 195 200 205
 Gly Val Lys Leu Asp Gln Val Ser Thr Trp Gly Gly Asp Ala Ala Lys
 210 215 220
 Met Ala Thr Tyr Leu Ala Lys Gly Met Ser Gln Glu Leu Thr Gly Ser
 225 230 235 240
 Ala Thr Lys Thr Ala Ser Lys Gly Ser Tyr Thr Pro Phe Gln Met Leu
 245 250 255
 Asp Met Leu Ala Asp Gln Ser Asp Ala Gly Glu Asp Met Asp Ala Val
 260 265 270
 Leu Val Ala Arg Trp Arg Glu Tyr Glu Val Gly Ser Lys Asn Leu Arg
 275 280 285
 Ser Ser Trp Ser Arg Gly Ala Lys Arg Ala Leu Gly Ile Asp Tyr Ile
 290 295 300
 Asp Ala Asp Val Arg Arg Glu Met Glu Glu Glu Leu Tyr Lys Leu Ala
 305 310 315 320
 Gly Leu Glu Ala Pro Glu Arg Val Glu Ser Thr Arg Val Ala Val Ala
 325 330 335
 Leu Val Lys Pro Asp Asp Trp Lys Leu Ile Gln Ser Asp Phe Ala Val
 340 345 350
 Arg Gln Tyr Val Leu Asp Cys Val Asp Lys Ala Lys Asp Val Ala Ala
 355 360 365
 Ala Gln Arg Val Ala Asn Glu Val Leu Ala Ser Leu Gly Val Asp Ser
 370 375 380
 Thr Pro Cys Met Ile Val Met Asp Asp Val Asp Leu Asp Ala Val Leu
 385 390 395 400
 Pro Thr His Gly Asp Ala Thr Lys Arg Asp Leu Asn Ala Ala Val Phe
 405 410 415
 Ala Gly Asn Glu Gln Thr Ile Leu Arg Thr His
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<210> 9

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for
introducing mutation to pAM330

<400> 9

aaacccgggc tacgtctgat gctttgaatc

30

<210> 10

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for
introducing mutation to pAM330

<400> 10

tttgatcccc cgtaaagtc aacaacc

27

<210> 11

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for
introducing mutation to pAM330

<400> 11

ttttccggg agcttgccac accccgag

28

<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for
introducing mutation to pAM330

<400> 12
gggggtcatc tctggctgaa ttgg 24

<210> 13
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for
introducing mutation to pAM330

<400> 13
gaggttttca ccgttctgca tgcc 24

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for
introducing mutation to pAM330

<400> 14
aactcacgcg cctgcaattc aac 23

<210> 15
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for PCR

<400> 15
gcctaccgcg gcaaagaagt ggcag 25

<210> 16
<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for PCR

<400> 16

gccttgaact aggggcgctt taagt

25

<210> 17

<211> 4235

<212> DNA

<213> Brevibacterium flavum

<220>

<221> CDS

<222> (1852)..(2364)

<400> 17

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Met Ser

1

ctt ggc tca acc ccg tca aca ccg gaa aac tta aat ccc gtg act cgc 1905
 Leu Gly Ser Thr Pro Ser Thr Pro Glu Asn Leu Asn Pro Val Thr Arg

5

10

15

act gca cgc caa gct ctc att ttg cag att ttg gac aaa caa aaa gtc 1953
 Thr Ala Arg Gln Ala Leu Ile Leu Gln Ile Leu Asp Lys Gln Lys Val

20

25

30

acc agc cag gta caa ctg tct gaa ttg ctg ctg gat gaa ggc atc gat 2001
 Thr Ser Gln Val Gln Leu Ser Glu Leu Leu Leu Asp Glu Gly Ile Asp

35

40

45

50

atc acc cag gcc acc ttg tcc cgg gat ctc gat gaa ctc ggt gca cgc 2049
 Ile Thr Gln Ala Thr Leu Ser Arg Asp Leu Asp Glu Leu Gly Ala Arg

55

60

65

aag gtt cgc ccc gat ggg gga cgc gcc tac tac gcg gtc ggc cca gta 2097
 Lys Val Arg Pro Asp Gly Gly Arg Ala Tyr Tyr Ala Val Gly Pro Val

70

75

80

gat agc atc gcc cgc gaa gat ctc cgg ggt ccg tcg gag aag ctg cgc 2145
 Asp Ser Ile Ala Arg Glu Asp Leu Arg Gly Pro Ser Glu Lys Leu Arg

85

90

95

cgc atg ctt gat gaa ctg ctg gtt tct aca gat cat tcc ggc aac atc 2193
 Arg Met Leu Asp Glu Leu Leu Val Ser Thr Asp His Ser Gly Asn Ile

100

105

110

gcg atg ctg cgc acc ccg ccg gga gct gcc cag tac ctg gca agt ttc 2241
 Ala Met Leu Arg Thr Pro Pro Gly Ala Ala Gln Tyr Leu Ala Ser Phe

115

120

125

130

atc gat agg gtg ggg ctg aaa gaa gtc gtt ggc acc atc gct ggc gat 2289
 Ile Asp Arg Val Gly Leu Lys Glu Val Val Gly Thr Ile Ala Gly Asp

135

140

145

gac acc gtt ttt gtt ctc gcc cgt gat ccg ctc aca ggt aaa gaa cta 2337
 Asp Thr Val Phe Val Leu Ala Arg Asp Pro Leu Thr Gly Lys Glu Leu

150

155

160

ggt gaa tta ctc agc ggg cgc acc act taaagcgccc ctagttcaag 2384
 Gly Glu Leu Leu Ser Gly Arg Thr Thr

165

170

gcttgttaat cgtttgttaa tgcaggcagg taaggataa cccgagtgtt ttttcgagga 2444
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<210> 18

<211> 171

<212> PRT

<213> Brevibacterium flavum

<400> 18

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 Lys Val Thr Ser Gln Val Gln Leu Ser Glu Leu Leu Leu Asp Glu Gly
 35 40 45
 Ile Asp Ile Thr Gln Ala Thr Leu Ser Arg Asp Leu Asp Glu Leu Gly
 50 55 60
 Ala Arg Lys Val Arg Pro Asp Gly Gly Arg Ala Tyr Tyr Ala Val Gly
 65 70 75 80
 Pro Val Asp Ser Ile Ala Arg Glu Asp Leu Arg Gly Pro Ser Glu Lys
 85 90 95
 Leu Arg Arg Met Leu Asp Glu Leu Leu Val Ser Thr Asp His Ser Gly
 100 105 110
 Asn Ile Ala Met Leu Arg Thr Pro Pro Gly Ala Ala Gln Tyr Leu Ala
 115 120 125
 Ser Phe Ile Asp Arg Val Gly Leu Lys Glu Val Val Gly Thr Ile Ala
 130 135 140
 Gly Asp Asp Thr Val Phe Val Leu Ala Arg Asp Pro Leu Thr Gly Lys
 145 150 155 160
 Glu Leu Gly Glu Leu Leu Ser Gly Arg Thr Thr
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<210> 19

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for PCR

<400> 19

cccggtttt cttctgcaac tcggg

25

<210> 20

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for PCR

Suba1

<400> 20

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25

<210> 21

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for PCR

<400> 21

cccctagttc aaggcttggtt aatc

24

<210> 22

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer for PCR

<400> 22

gtcttacctc ggctggttgg ccagc

25